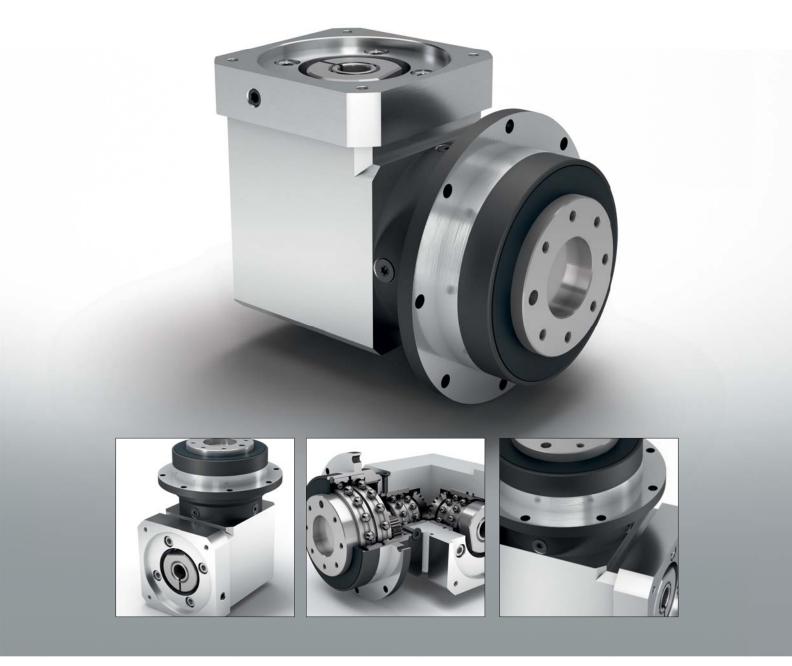


WPLFE

The shortest right angle planetary gearbox with flange output shaft and maximum torsional stiffness



- Space-saving thanks to minimal installation height
- Simple, reliable and fast mounting due to standardized flange interface

Thinking outside of the box for tight situations

Our new right angle planetary gearbox at a glance:

Can be mounted in any direction

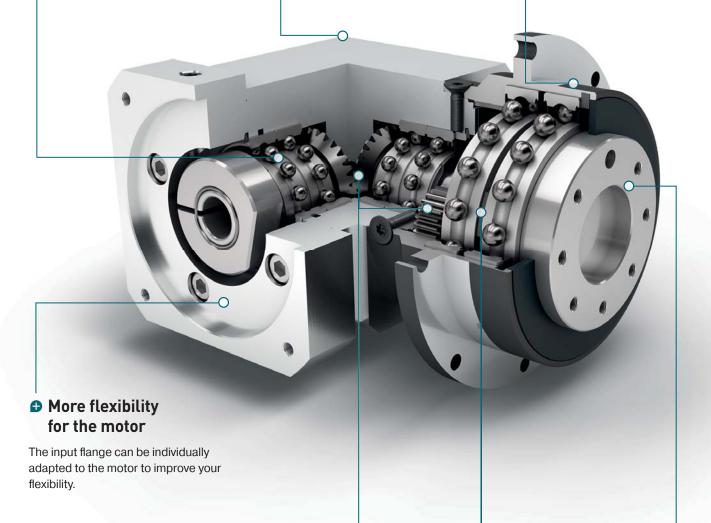
Optimize your small spaces with our **WPLFE** right angle planetary gearbox which comes with lifetime lubrication. It can be mounted in any direction and thereby offers maximum flexibility.

Space-saving thanks to minimal installation height

The **WPLFE** is the shortest right angle planetary gearbox in the economy line. Depending on size, it needs up to 30% less space than comparable right angle gearboxes.

Maximum torsional stiffness for precise drive solutions

The larger diameter of the flange output shaft gives the **WPLFE** five times the torsional stiffness of an output shaft with a feather key. This design allows you to make the most of your drive solution for cyclic or continuous operation.



Precise gearing

Precise gearing delivers optimum output torque even in a small space.

Optimized bearing concept for high performance

The deep groove ball bearings are very low-friction components. So only little heat is produced, which improves the performance of the gearbox and your drive.

Simple, reliable and fast mounting

The standardized flange interface (EN ISO 9409-1) guarantees quick and easy mounting of drive components such as a pulley, linear unit or rotary table. The integrated dowel hole provides additional secureness during fitting.



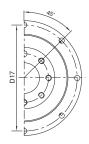
Technical highlights

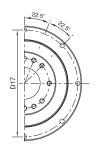


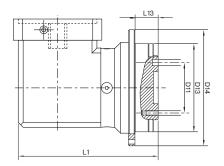
		WPLFE064	WPLFE090	WPLFE110	Z ⁽¹⁾
t _L	h		20,000		
η	%		94		
T_{min}/T_{max}	°C	- 25 / +90			
			IP 54		
	arcmin	< 16	< 13	< 11	1
Jt		< 18	< 15	< 13	2
	Nm/arcmin	8.9 - 11.9	21.0 - 27.8	52.8 - 71.4	1
O _g		9.1 - 11.9	21.5 - 27.8	53.8 - 70.4	2
m-	kg	1.9	5.2	13.0	1
IIIG		2.3	5.7	15.0	2
Q_g	dB(A)	70	73	75	
		500 000	1200 2200	2100 2000	
_	N				
	Nm				
IVIK30,000 h	INIII	- 11	40	90	
	kgcm²	0.229 - 0.458	0.964 - 1.913	1.955 - 4.272	1
J		0.221 - 0.387	0.917 - 1.477	1.850 - 3.515	2
T _{2N}	Nm				1
					2
T _{2max}	Nm		V		1
					2
Taston	Nm				1
20109		80 - 88	190 - 260	380 - 520	2
9) n _{1N}	rpm	3200 - 4500	2200 - 4000	1700 - 3500	
n _{1Limit}	rpm	13000	7000	6500	
	η	η % % T _{min} /T _{max} °C jt arcmin C _g Nm/arcmin m _G kg Q _g dB(A) F _r N F _a N Nm T _{2max} Nm T _{2stop} Nm Nm T _{2stop} Nm T _{2max} T _{2max}	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	t _L h 20,000 η % 94 T _{min} /T _{max} 'C -25/+90 IP 54 j _t arcmin < 18 < 15 c _g Nm/arcmin	t _L h 20,000 η % 94 T _{min} /T _{max} °C -25/+90 IP 54 IP 54 j _L arcmin < 16

WPLFE064

WPLFE110







Drawing corresponds to a WPLFE090 / 1-stage / flange output shaft with dowel hole / 19 mm clamping system / motor adaptation – 2-part – square universal flange / B5 flange type motor

All other variants can be retrieved in the Tec Data Finder at: $\ensuremath{\mathbf{www.neugart.com}}$

Geometry*			WPLFE064	WPLFE090	WPLFE110	Z ⁽¹⁾
Pitch circle diameter output shaft	D11		31.5	50	63	
Centering diameter output flange	D13	h7	64	90	110	
Flange diameter output	D14		86	118	145	
Pitch circle diameter output flange	D17		79	109	135	1 1
Total length	L1		110	149	198.5	1
			122.5	166.5	225.5	2
Output flange length	L13		19.5	30	29	

- * Dimensions in mm
- (1) Number of stages
- (2) Other (sometimes higher) values following changes to T_{2N}, F_r, F_a, cycle, and service life of bearing.
- Application specific configuration with NCP www.neugart.com

 The ratio-dependent values can be retrieved in Tec Data Finder –

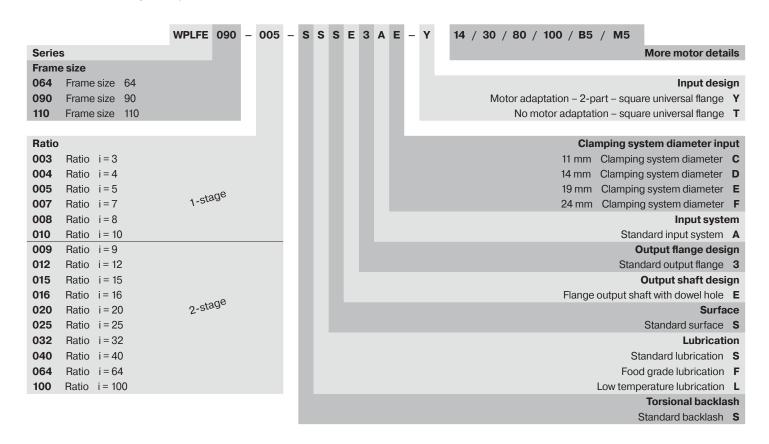
 www.neugart.com
- $^{(4)}$ Sound pressure level from 1 m, measured on input running at $n_1\!=\!3000$ rpm no load; $i\!=\!5$
- (5) Based on the end of the output shaft
- (6) These values are based on an output shaft speed of n₂=100 rpm
- (7) 30,000 rotations of the output shaft permitted
- (8) Permitted 1000 times
- (9) Application-specific speed configurations with NCP www.neugart.com



Large number of variants for any field

As a torsionally stiff drive component, our compact **WPLFE** right angle planetary gearbox is the ideal solution for many fields. The compactness of the **WPLFE** provides the freedom in your application you have long been looking for.

The product code shows the numerous variants of the **WPLFE**. You can select the gearbox variant most suited to your requirements.



Neugart's **Tec Data Finder** allows you to very easily configure your right angle planetary gearbox with flange output shaft.

The product code helps you to quickly and directly request a quote.



Use **Tec Data Finder** to easily generate all the relevant information about your gearbox online. This includes the specific and geometrical data in the form of a dimension sheet as well as the CAD models in all of the usual formats.



The **NCP** configuration software enables you to determine the optimum motor-gearbox combination for your application with the relevant dynamics data and loads. A huge number of possible applications and over 11,000 motors are available to you.

Do you still have unanswered questions or want more information?

We would be happy to advise on all matters relating to drive technology.

You can find your local sales contact at www.neugart.com

Neugart GmbH

Keltenstraße 16 77971 Kippenheim Germany

Phone: (+49) 7825 847 0 Fax: (+49) 7825 847 2999 Email: sales@neugart.com